

AMENDMENTS TO THE ABSTRACT

Please substitute the following paragraph(s) for the abstract now appearing in the currently filed specification:

H plane and E plane of a second rectangular waveguide element (~~20~~) are inclined at an angle of 45° with respect to H plane and E plane of a first rectangular waveguide element (~~10~~). A connection element (~~30~~) disposed between the first and second rectangular waveguide elements (~~10~~), (~~20~~) has an inner periphery that surrounds a central axis extending in a direction of electromagnetic-wave propagation. The inner periphery includes surfaces parallel to H plane and E plane of the first rectangular propagation path element (~~10~~), and these surfaces form a staircase such that abutting sections between the surfaces parallel to H plane and the surfaces parallel to E plane constitute projections. The staircase is inclined in a direction corresponding to a direction in which H plane of the second rectangular propagation path element (~~20~~) is inclined. Accordingly, an electric field is concentrated in the projections of the connection element (~~30~~), and a plane of polarization of an electromagnetic wave propagating through the connection element (~~30~~) is rotated from a plane of polarization in the first rectangular waveguide element (~~10~~) towards a plane of polarization in the second rectangular waveguide element (~~20~~).